PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-046361
(43)Date of publication of application : 16.02.1999

(51)Int.Cl. H04N 7/24
H03M 7/30
H03M 7/36
H04Q 7/38
H04N 1/393
H04N 1/41

(21)Application number : 09-199898
(22)Date of filing : 25.07.1997

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(54) IMAGE COMPRESSION METHOD AND DEVICE, DIGITAL CAMERA, PORTABLE INFORMATION TERMINAL, IMAGE EXPANSION DEVICE AND IMAGE TRANSMISSION SYSTEM

(57)Abstract:
PROBLEM TO BE SOLVED: To attain a satisfactory transmission of digital images by first decreas ing the number of pixels of an input image where plural pixels are arrayed in a matrix form and applying the block-coding processing with respect to those pixels.
SOLUTION: A rate control part 1e sets a pixel number decrease rate and a quality parameter based on the transmission rate of a radio transmission line. A pixel number decrease part 1b decreases the number of pixels of an input image, based on the pixel number decrease rate that is outputted from the part 1e to decrease the pixels for each side of the input image, based on the pixel number decrease rate for generation of an image having a small number of pixels. Then a block coding part 1c applies independent discrete cosine transform to the (8 × 8) pixels of the generated image to calculate a DCT coefficient, quantizes the DC and AC components of the DCT coefficient, and then applies entropy coding to the quantization data for the generation of the coding data. Finally, a radio transmission part 1d generates and transmits the transmission data.